

52

## Revision Set 9B

1a)  $323 \div 100 = 3.23 \text{ cm}^2$

b)  $23462 \div 10000 = 2.3462 \text{ ha}$

c)  $8.42 \times 10000 = 84200 \text{ cm}^2$

d)  $2.8 \text{ mm}^2 \div 100 = 0.028 \text{ cm}^2$

e)  $253 \text{ cm}^2 \times 100 = 25300 \text{ mm}^2$

f)  $2.92 \text{ km}^2 \times 1000000 \div 10000 = 292 \text{ ha}$

2a)  $P = 1.34 \times 6 = 8.04 \text{ m}$

b)  $P = (8+4) \times 2 = 12 \text{ cm}$

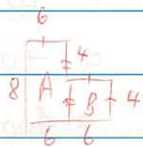
c)  $P = (6 \times 3) + 5 \times 2 = 28 \text{ cm}$

3a) Area = A + B

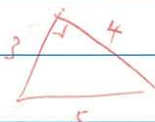
=  $(8 \times 6) + (6 \times 4)$

=  $48 + 24$

=  $72 \text{ m}^2$



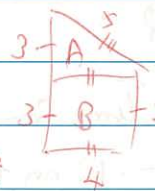
b) Area =  $\frac{3 \times 4}{2} = 6 \text{ m}^2$



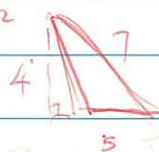
c) Area = A + B

=  $\frac{4 \times 3}{2} + 3 \times 4$

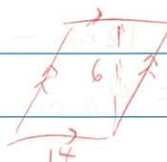
=  $6 + 12 = 18 \text{ m}^2$



d) Area =  $\frac{5 \times 4}{2} = 10 \text{ cm}^2$



e) Area =  $6 \times 14 = 84 \text{ cm}^2$



3f. The shaded area

= A + B

=  $\frac{(2+3) \times 2}{2} + \frac{2 \times 3}{2}$

=  $5 + 3 = 8 \text{ m}^2$



4 P of the track =  $(1.2 \times 2 + 1.8 + 0.9 + 0.45) \text{ m}$

=  $2.4 + 1.8 + 0.9 + 0.45$

=  $5.55 \text{ m}$

Chelsea needs 5.55 m of track

5. The area of the floor

not covered by the rug =

$(8.2 \times 6.4) - (3.5 \times 2.5)$

=  $43.73 \text{ m}^2$

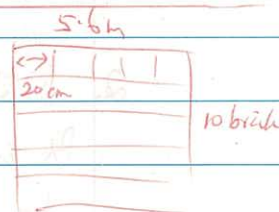


6. Number of bricks needed:

$5.6 \text{ m} \div 20 \text{ cm} \times 10$

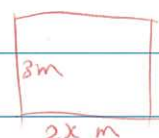
=  $\frac{560}{20} \times 10$

= 280 bricks



7a) i)  $P = (3 + 2x) \times 2 = (6 + 4x) \text{ m}$

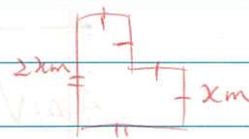
ii)  $A = 3 \times 2x = (6x) \text{ m}^2$



b) i)  $P = 2x \times 4 = (8x) \text{ m}$

ii)  $A = 2x \times 2x - x \times x$

=  $4x^2 - x^2 = (3x^2) \text{ m}^2$



8a) Total length of the rope =

$6 \times 4 \times 3 = 72 \text{ m}$

b) total length of the corner paths

$1.5 \times 4 = 6 \text{ m}$

c) area of the ring inside:

$6 \times 6 = 36 \text{ m}^2$

d) area of the apron:

$7 \times 7 - 36 = 49 - 36 = 13 \text{ m}^2$

